

Claims:

1. A hinge assembly for coupling a spa cover to a spa, comprising:

5 a mounting bracket adapted to be installed near a top of the spa;

 a slide bracket slidably coupled to the mounting bracket; and

10 a support arm adapted to be attached to the spa cover, wherein the support arm is pivotably coupled to the slide bracket at a pivot point on the slide bracket.

2. The hinge assembly of claim 1, wherein the slide bracket has two ends, wherein the end near the pivot point is moved in an upward direction as the slide bracket is 15 slidably extended from the mounting bracket.

3. The hinge assembly of claim 1, wherein the support arm comprises:

20 an elongated member adapted to be attached along a side of the spa cover;

 a short member, which is pivotably coupled to the slide bracket; and

25 a connecting member between the elongated member and the short member, said connecting member having a curvature such that the short member is substantially perpendicular to the elongated member.

4. The hinge assembly of claim 2, wherein the mounting bracket comprises two side plates connected via a web, wherein at least one of the side plates has formed thereon at least one hole used to slidably couple the slide bracket to the mounting bracket.

5. The hinge assembly of claim 4, wherein the slide bracket comprises two slide plates connected via another web, wherein at least one of the slide plates has formed
5 thereon an elongated opening used together with said at least one hole to slidably couple the slide bracket to the mounting bracket, wherein the elongated opening is inclined with a first vertical level of the opening close to the pivot point being higher than a second vertical level of
10 the opening away from the pivot point, thereby enabling the end near the pivot point to be moved in the upward direction as the slide bracket is slidably extended from the mounting bracket.

15 6. A spa system comprising:

a spa;

a foldable spa cover having at least two sections;

20 a hinge assembly for coupling the spa cover to the spa, said hinge assembly comprising:

a mounting bracket adapted to be installed near a top of the spa;

a slide bracket slidably coupled to the mounting bracket; and

25 a support arm adapted to be attached to the spa cover, wherein the support arm is pivotably coupled to the slide bracket at a pivot point on the slide bracket.

30 7. The spa system of claim 6, wherein the mounting bracket comprises two side plates connected via a web, wherein at least one of the side plates has formed thereon

at least one hole used to slidably couple the slide bracket to the mounting bracket.

8. The spa system of claim 7, wherein the slide bracket comprises two slide plates connected via another web, wherein at least one of the slide plates has formed thereon an elongated opening used together with said at least one hole to slidably couple the slide bracket to the mounting bracket, wherein the elongated opening is inclined 10 with a first vertical level of the opening close to the pivot point being higher than a second vertical level of the opening away from the pivot point, thereby enabling the end near the pivot point to be moved in an upward direction as the slide bracket is slidably extended from the mounting 15 bracket.

9. The spa system of claim 6, wherein the support arm is attached to the spa cover via a metal plate disposed on an outside surface of the spa cover.

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10. The spa system of claim 9, wherein the metal plate is affixed to the spa cover via a double sided tape.

11. The spa system of claim 10, wherein the metal 25 plate has a hole formed thereon, wherein a screw is inserted through the hole into the spa cover, and wherein the screw is anchored in the spa cover by rotating the screw.

30 12. The spa system of claim 11, further comprising a deformable anchor engaged with the screw, and wherein the

deformable anchor is deformed and embedded inside the spa cover as the screw is rotated.

13. A method of removing a spa cover from a top of a
5 spa, said method comprising:

sliding the spa cover towards a rear end of the spa;

folding the spa cover into two substantially equal sections; and

10 rotating the spa cover so as to remove it completely from the top of the spa.

14. The method of claim 13, wherein a rear edge of the spa cover is lifted up as the spa cover is slid towards 15 the rear end of the spa.

15. The method of claim 13, wherein sliding the spa cover towards the rear end of the spa takes place prior to rotating the spa cover so as to remove it completely from 20 the top of the spa.

16. The method of claim 13, wherein sliding the spa cover towards the rear end of the spa takes place prior to folding the spa cover into two substantially equal 25 sections.

17. The method of claim 16, wherein folding the spa cover into two substantially equal sections takes place prior to rotating the spa cover so as to remove it 30 completely from the top of the spa.

18. The method of claim 13, further comprising: rotating the spa cover so as to cover the spa about half way; unfolding the folded spa cover; and sliding the spa cover towards a front end of the spa.

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19. The method of claim 18, wherein a rear edge of the spa cover is moved downward as the spa cover is slid towards the front end of the spa.

10 20. The method of claim 18, wherein rotating the spa cover so as to cover the spa about half way takes place prior to sliding the spa cover towards the front end of the spa